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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/805,035	03/14/2001	Michiyasu Komatsu	204628US0	1647	
22850	7590 09/19/2002				
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY			EXAMINER		
			GROUP, KARL E		
ARLINGTO	N, VA 22202		ART UNIT	PAPER NUMBER	
			1755	5	
			DATE MAILED: 09/19/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.



AS5

Application No.

09/80ൃ,035

Applicant(s)

Komatsu

Office Action Summary Examiner

Karl Group

Art Unit 1**755** 

	The MAILING DATE of this communication appears	on the cover shee	et with the	he correspondence address			
Period for I	* •	_					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.							
- Extensions	- Extensions of time may be available under the provisions of 37 CFR 1.136 (e). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the						
_	mailing date of this communication If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.						
- If NO period	od for reply is specified above, the maximum statutory period will apply a reply within the set or extended period for reply will, by statute, cause the	and will expire SIX (6) Mo	10NTHS fro	om the mailing date of this communication.			
- Any reply re	received by the Office later than three months after the mailing date of tent term adjustment. See 37 CFR 1.704(b).	• •		· · · · · · · · · · · · · · · · · · ·			
Status	The term adjustment. Good of Section 1.1.						
1)□ Re	esponsive to communication(s) filed on						
2a) 🗌 Th	nis action is <b>FINAL</b> . 2b) 🔀 This act	tion is non-final.					
clo	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.						
Disposition							
4) 💢 Cla	aim(s) <u>1-20</u>			is/are pending in the application.			
4a) (	Of the above, claim(s) 17-20			is/are withdrawn from consideration.			
5) 🗌 Cla	aim(s)			is/are allowed.			
6) 💢 Cla	aim(s) <u>1-16</u>			is/are rejected.			
7) 🗌 Cla	aim(s)			is/are objected to.			
8) 🗌 Cla	aims	are s	subject 1	to restriction and/or election requirement.			
Application	n Papers						
9)□ Th	ne specification is objected to by the Examiner.						
10)□ Th	ne drawing(s) filed on is/are	a) 🗆 accepted	or b)□	$\mathbb{I}$ objected to by the Examiner.			
Α	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)□ Th	ne proposed drawing correction filed on	is: a	₃)□ ar	pproved b) $\square$ disapproved by the Examiner.			
lf	If approved, corrected drawings are required in reply to this Office action.						
12) 🗌 Th	12) $\square$ The oath or declaration is objected to by the Examiner.						
	der 35 U.S.C. §§ 119 and 120						
	13) 🗓 Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
	a) ☑ All b) ☐ Some* c) ☐ None of:						
1. 🕽	Certified copies of the priority documents hav	e been received.	•				
2. 🗆	Certified copies of the priority documents hav	e been received	in Appli	ication No			
3. 🗆 *See t	application from the International Bure	au (PCT Rule 17.	.2(a)).	•			
_	the attached detailed Office action for a list of the						
	The state of the s						
_	The second of the constant approach in the book records.						
Attachment(s		priority unuer 30	) U.S.C.	. 33 IZU and/or IZI.			
	of References Cited (PTO-892)	4) Interview Summ	marv (PTO-4	.4.1.31 Papar No(s)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)				·			
3) 💢 Informat	3) X Information Disclosure Statement(s) (PTO-1449) Paper No(s). 3,4 6) Other:						

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-116, drawn to a product, classified in class 501, subclass 97.2.

II. Claims 17-20, drawn to a method of producing, classified in class 264, subclass

668.

2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are

distinct if either or both of the following can be shown: (1) that the process as claimed can be

used to make other and materially different product or (2) that the product as claimed can be

made by another and materially different process (MPEP § 806.05(f)). In the instant case the

product may be made by reaction sintering elemental Si.

3. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art because of their recognized divergent subject matter, restriction for

examination purposes as indicated is proper.

4. During a telephone conversation with Frederick Vastine on 9-10-02 a provisional election

was made with traverse to prosecute the invention of Group I, claims 1-16. Affirmation of this

election must be made by applicant in replying to this Office action. Claims 17-20 are withdrawn

from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected

invention.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 5, "of which" is confusing, "having a long axis of" is suggested.

Furthermore, "here, R expresses on of rare earth" is confusing as well as parentheses should be removed.

Claims 2 and 4 "are singly particle dispersed" is confusing.

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1-16 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over DE3840171 and Suyama et al (US 5,098,872), each taken alone.

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The German reference teaches a silicon nitride wear resistant member that may be used as a bearing material silicon nitride, 1-5 wt% titanium nitride and an intergranular phase including Si, Al, Ce, O and N (see abstract supplied).

Suyama et al also teaches a wear resistant material which include an amorphous grain boundary phase and the addition of rare earth, titanium oxide and an aluminum compound. The titanium oxide reacts with nitrogen to form titanium nitride. (See column 4, lines 8-18).

- 10. It is well settled that when a claimed composition appears to be substantially the same as a composition disclosed in the prior art, the burden is properly upon the applicant to prove by way of tangible evidence that the prior art composition does not necessarily possess characteristics attributed to the CLAIMED composition. <u>In re Spada</u>, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Circ. 1990); <u>In re Fitzgerald</u>, 619 F.2d 67, 205 USPQ 594 (CCPA 1980); <u>In re Swinehart</u>, 439 F.2d 2109, 169 USPQ 226 (CCPA 1971).
- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl Group whose telephone number is (703)308-3821. The examiner can normally be reached on Monday-Thursday from 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell, can be reached on (703)308-3823. The fax phone number for this Group is (703)872-

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9310, for any non-final amendment or communication, and (703)872-9311 for any after-final amendment or communication.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308-0661.

KARL GRÖUP PRIMARY EXAMINER ART UNIT 1755

Keg September 16, 2002